California Department of Transportation



Zabriski Point, Death Valley National Park

District 9

Storm Water Management Program Regional Work Plan 2005/2006

For

Lahontan Region 6
Water Quality Control Board

CTSW-RT-05-132-16.1



OF TRANSPORTATION DISTRICT 9

Certification Regional Work Plan 2005/2006

California Regional Water Quality Control Board Lahontan Region 6

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations. [40 CFR 122.22(d)]

Thomas P Hallenbeck, District Director

3/1(05 Date

OF TRANSPORTATION DISTRICT 9

APPROVAL Regional Work Plan 2005/2006

California Regional Water Quality Control Board Lahontan Region 6

April 1, 2005

California Department of Transportation District 9

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1.0 INTRODUCTION

The purpose of the RWP is to describe how the Department will specifically implement the Statewide Storm Water Management Program (SWMP) within the jurisdiction of each Regional Water Quality Control Board (RWQCB) during Fiscal Year 2005/2006 as required by the Caltrans Statewide Storm Water NPDES Permit – Order No. 99-06-DWQ (Permit). Implementation activities will be conducted in accordance with the procedures presented in the SWMP. The RWP indicates how District storm water management practices will be modified to improve water quality protection based on evaluation of the previous studies and management activities.

The RWP provides region-specific information on Department facilities, water bodies, and Best Management Practices (BMPs), and monitoring programs according to the following sections:

- Section 1 Introduction;
- Section 2 Personnel and Responsibilities;
- Section 3 District Facilities and Water Bodies;
- Section 4 High Risk Areas; and
- Section 5 Implementation Activities.

2.0 DEPARTMENT PERSONNEL AND RESPONSIBILITIES

Portions of District 9 fall within the jurisdiction of the Lahontan RWQCB Region 6 and Central Valley RWQCB Region 5. Its geographic boundaries are limited to Inyo and Mono Counties, but the District's roadway planning, maintenance, and operations overlap onto State Routes (SRs) 14, 58, 178, 202, and US 395 located in Eastern Kern County and SRs 127 and 178 in Northern San Bernardino County.

An organization chart for District 9 is included in Figure 2.1 on Page 2-3. Staff responsible for implementing the SWMP within the Lahontan RWQCB jurisdiction is listed in Table 2-1.

TABLE 2-1: KEY DEPARTMENT STORM WATER PERSONNEL AND RESPONSIBILITIES

Staff	Title	Phone Number	E-Mail Address	Responsibilities
Mark A. Heckman	District NPDES Storm Water Coordinator	(760) 872-0734	Mark_Heckman@dot.ca.gov	Primary contact for all storm water issues within District and HQ
Richard Waistell	District Storm Water Maintenance Coordinator	(760) 872-0675	Richard_Waistell@dot.ca.gov	Primary contact for all Maintenance issues within the District
Monty Packard	District Maintenance Storm Water Supervisor	(760) 872-0631	Monty_Packard@dot.ca.gov	Secondary contact for Maintenance issues within the District
Terry Gess	District Storm Water Permits Coordinator	(760) 872-0790	Terry_Gess@dot.ca.gov	Primary contact for Permits issues
R. Steve Miller	District Landscape Architect	(760) 872-0784	R_Steve_Miller@dot.ca.gov	Primary contact for Landscape issues within the District
Rodger Johnson	Central Region Storm Water Design Coordinator	(760) 872-0645	Rodger_Johnson@dot.ca.gov	Primary contact for Design within the District
Dan Holland	Central Region Storm Water Environmental Coordinator	(760) 872-3021	Dan_Holland_@dot.ca.gov	Primary contact for project specific issues within the District
Luis Elias	Central Region Construction Storm Water Coordinator	(760) 872-5251	Luis_Elias@dot.ca.gov	Primary contact for Construction issues within the District

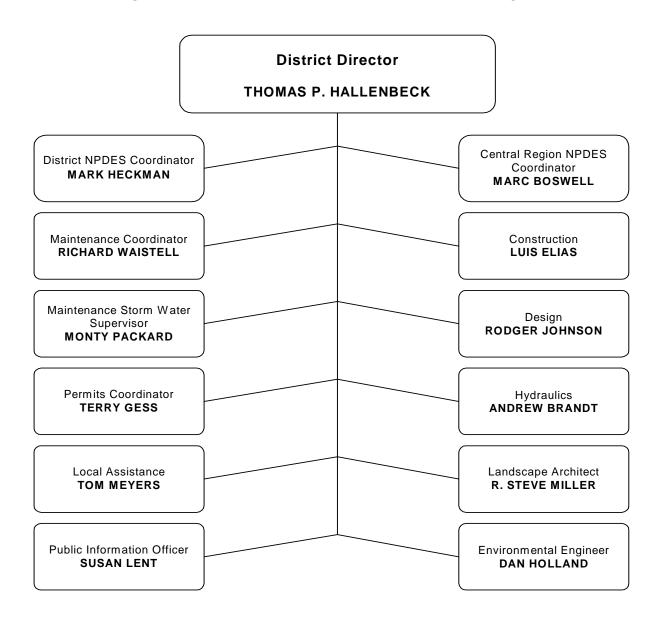
In compliance with Permit Section M.10.b, the following positions listed in Table 2-2 are authorized to sign the documents, reports and other information submitted by the District to either the SWRCB or the RWQCB.

TABLE 2-2: SIGNATORY AUTHORITY FOR KEY DOCUMENTS

Individual/Position	Documents Authorized for Signature
Thomas P. Hallenbeck, District Director	All District Documents
Dave Grah, Deputy District Director – Maintenance	All District Documents, except Regional Work Plan and Annual Report
Craig Holste, Deputy District Director – Program Management	All District Documents, except Regional Work Plan and Annual Report
Brad Mettam, Deputy District Director – Planning and Programming	All District Documents, except Regional Work Plan and Annual Report

FIGURE 2-1: ORGANIZATIONAL CHART

District 9
Organizational Chart for the Storm Water Program



3.0 DISTRICT FACILITIES AND WATER BODIES

This section identifies the Department's facilities and water bodies within each District and Regional Board jurisdiction. A list of the Department's facilities, excluding roadways, is presented in Table 3-1. A map showing District 9 boundaries within the Lahontan and the Central Valley RWQCBs, and major roads and highways are presented in Figure 3-1 below.

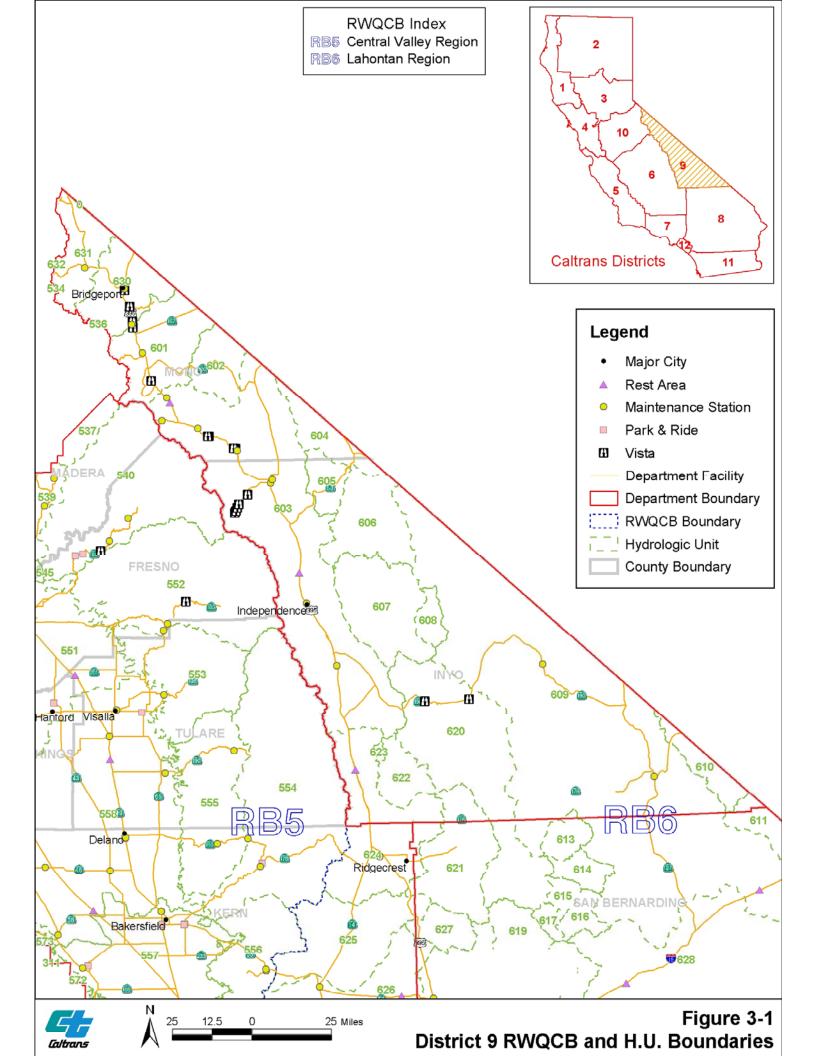


TABLE 3-1: DISTRICT 9 FACILITIES

CO	Route	Post Mile	Name	Comments
	Noute	i oat Mille	Maintenance Statio	
Inyo	006	0.13	Bishop	Highway Maintenance
Inyo	127	14.7	Shoshone	Highway Maintenance
Inyo	190	107.4	Death Valley	Highway Maintenance
Inyo	395	73.8	Independence	Highway Maintenance
Kern	058	112.3	Mojave	Highway Maintenance
Kern	178	92.0	Inyokern	Highway Maintenance
Kern	202	10.5	Tehachapi	Highway Maintenance
Mono	395	18.0	McGee Creek	Highway Maintenance
Mono	395	34.2	Crestview	Satellite
Mono	395	51.6	Lee Vining	Highway Maintenance
Mono	395	76.0	Bridgeport	Highway Maintenance
Mono	395	93.8	Sonora Junction	Highway Maintenance
1415116	000	00.0	Vista Points	Tigriway Maintonanoo
Mono	395	4.1	Sherwin Grade	South Bound
Mono	395	4.7	Sherwin Grade	North Bound
Mono	395	62.5	Conway Summit	
			ercial Vehicle Enforcen	nent Facilities
Inyo	395	111.3	Warm Springs	CHP Tow-in-scale location
Kern	058	81.0	Keene	
Kern	058	105.5	Cache Creek	
Mono	395	116.9	Topaz Lake	CHP Tow-in-scale location
			Roadside Rest Are	eas
Inyo	395	R17.7	Coso Junction	17 mi. S of Jct. Route 395/190
Inyo	395	R83.9	Division Creek	10 mi. N of Independence
Kern	058	139.0	EB Boron	27 mi. E of Mojave
Kern	058	139.0	WB Boron	27 mi. E of Mojave
Mono	395	32.4	Crestview	1.6 mi. S of Crestview
•			Park and Ride Facili	ties
Kern	178	103.8	Ridgecrest	NW corner of Richmond Rd
			Sand and Salt Staging	Areas
Inyo	395	56.0	Lone Pine	Sand Storage
Kern	058	90.72	Tehachapi	Sand and Salt Storage
Mono	203	2.2	Minaret	Sand and Salt Storage
Mono	395	3.2	Sherwin Grade	Sand and Salt Storage
Mono	395	63.6	Conway Summit	Sand and Salt Storage
			Snow Storage Site	
Mono	158	1.0	June Lake	Snow storage site
Mono	158	2.8	June Lake	Snow storage site
Mono	395	76.8	Bridgeport	Snow storage site
			Toll Road and Bridge	Plazas
			NONE	

Lists and maps of the Department of Water Resource Hydrologic Units located within the coverage area are presented in Appendix A of the SWMP. Specific information on the

Department facilities and water bodies may also be found at the following website: http://stormwater.water-programs.com/Research.htm

4.0 HIGH RISK AREAS

A list of high-risk areas within District 9 is presented in Table 4-1. High-risk areas are defined in Section E.2 of the Permit to include areas such as locations where spills from the Department's right-of-ways, activities, or facilities can discharge directly to municipal or domestic water supply reservoirs or ground water percolation facilities. Additional sites may be added to the high-risk list based on discussion between the RWQCB and the Department. The Permit requires consideration of appropriate spill containment and spill prevention control measures for these areas.

In order to generate the list of high-risk municipal and domestic water supply reservoirs and ground water percolation facilities, the Department first contacted known public and private water supply providers. From the information received, the Department determined which facilities were susceptible to a direct spill from a Department activity or facility. This determination was based on proximity between the water body and the Department facility, use characteristics of the facilities, and the probable spill response time.

The Department will consider and implement spill containment and prevention control measures in accordance with the processes contained in the SWMP including Section 3 for BMP identification and implementation, Section 4.4.1 for new construction projects or Section 4.4.2 for retrofit projects that are within these areas.

TABLE 4-1: HIGH RISK AREAS

Road Segment/ Facility	County	High Risk Area	Description	Comments
SR 158, PM 2.3 to 3.3	Mono	June Lake System	Used as a domestic water supply during peak use periods only. Accidental spills have the potential to immediately impact the drinking water resource before response actions could be initiated.	Evaluation of appropriate and cost effective BMPs used during projects will be considered as required.
SR 158, PM 3.3 to 14.4	Mono	June Lake Down Canyon	Used as a domestic water supply during peak use periods only. Accidental spills have the potential to immediately impact the drinking water resource before response actions could be initiated.	Evaluation of appropriate and cost effective BMPs used during projects will be considered as required.

5.0 IMPLEMENTATION ACTIVITIES

This section presents specific project work planned for the year and indicates BMP implementation improvements. The anticipated schedule of construction and maintenance activities is subject to change. The Department will discuss with the RWQCBs, new projects meeting the criteria listed below when ground disturbance takes place or when major maintenance activities are initiated during the fiscal year.

Table 5-1 includes a list of construction projects that meet one or more of the following criteria:

- The project involves greater than 5 acres of land disturbance, designated as "DSA" (Disturbed Soil Area);
- The project affects a water body within the project limits designated as "303d";
- The project requires a 401 Water Quality Certification or Waiver, designated as "401";
- The project is a Supplemental Environmental Project (water quality project negotiated by the RWQCB and The Department), designated as "SEP";
- The project is a storm water retrofit project (SWMP Section 4.4.2), designated as "Retro";
- The project includes Lahontan Regional Water Quality Control Board specific requirements for the Lake Tahoe Hydrologic Unit;
- The project limits are within a "High Risk Area;" and
- The project is designated by a RWQCB as posing a potential threat to water quality, designated as "RB".

Table 5-1 is intended to facilitate early RWQCB staff input in the project-planning phase in accordance with Section L.8 of the Permit and Section 4.4 of the SWMP. The goal is to resolve water quality issues that may affect project funding, permitting, and scheduling. In addition, projects that require RWQCB review and approval of project SWPPPs/WPCPs in accordance with Sections H.8 and L.8 of the Permit are also covered in Table 5-1 and Table 5-2.

Table 5-2 presents a list of anticipated significant maintenance projects that have the potential to impact water quality and provides early notification of such activities. It also includes region-specific issues and BMP actions/modifications based on program evaluations discussed in current and/or past Annual Report(s).

Table 5-3 summarizes various program management activities that are part of the Storm Water Pollution Prevention Program.

TABLE 5-1: DISTRICT 9 ANTICIPATED PROJECT DEVELOPMENT/CONSTRUCTION SCHEDULE

						Water Bodies		Anticip Proj Deliv Sche	ect ery		nstruction Period
**SWMP Category	EA#	Co.	Route	PM	Description	Impacted by Project	Criteria*	PA&ED Date	PS&E Date		Completion Date
С	06- 39680	KER		L5719	Cache Creek Maintenance Station- Construct new maintenance station		DSA	12/01	1/04	7/09	12/10
А	09- 29690_	INY	190	28.8/33.0	Drainage improvement near Keeler from 6.8 KM East Junction Rte 136 to 2.7 KM West Talc City Rd (KPX046.3-X053.1)	Centennial Wash	DSA 401	1/08	8/10	12/10	11/11
В	09- 27310_	INY	395	112.9/115.0	Widening, dig outs, and AC overlay near Bishop from Warm Springs Rd to J St in Bishop (KP {X181.7/X185.1)	Canal	DSA	6/04	4/07	10/07	4/08
Α	09- 30060_	INY	395	17.9	Construct new SB SRR near Coso Junction at Coso Rd (KPX28.8)		DSA	10/08	11/11	4/12	10/13
В	09- 21480_	INY	395	70.3/76.1	Widen to 4-lane expressway near Independence from 4.3 KM South Mazourka Canyon Rd to 1.0 KM North Shabbell Lane (KPX113.1/X122.8)	Symmes Creek, Independence Creek	DSA	3/03	7/07	12/07	11/09
В	09- 21460_	INY	395	77.3/91.6	Widen to 4-lane expressway near Independence (<u>Blackrock</u>) from 0.3 KM North to North Fort Rd to 0.2 KM South of Elna Rd (KPX124.4/X147.4)	LA Aqueduct, Sawmill Creek, Goodale Creek, Division Creek, Taboose Creek	DSA 401 303(d) (Goodale Creek)	3/03	12/05	5/06	11/08
А	09- 30150_	INY	395	84.0	Rehab existing rest area near Independence at Division Creek Roadside Rest (KPX135.2)	Division Creek	DSA 401	1/03	3/05	7/05	7/06
А	09- 30330	INY	395	84.0	Construct new SB SRR near Big Pine at Division Creek Safety Roadside Rest (KPX135.2)	Division Creek	DSA	1/09	2/12	7/12	11/13
В	09- 25800	INY	395	117.8/122.4	Ed Powers Rehab-Recycle, widen shoulders, AC overlay.	McGee Creek	DSA	9/04	9/06	6/07	12/07
В	09- 21340	INY	395	30.8/41.8	Construct 4-lane expressway (Olancha).	LA Aqueduct Cartago Creek	DSA	7/10	5/18	11/21	4/23
В	09- 29550	INY	395	R0.0/R8.6	Widening, curve realignment, overlay.	-	401	10/03	3/05	8/05	11/06

TABLE 5-1: DISTRICT 9 ANTICIPATED PROJECT DEVELOPMENT/CONSTRUCTION SCHEDULE

						Water Bodies		Anticip Proj Deliv Sche	ect ery		nstruction Period
**SWMP Category	EA#	Co.	Route	PM	Description	Impacted by Project	Criteria*	PA&ED Date		Start Date	Completion Date
В	09- 21440_	INY	395	R65.2/R71.2	Widen to 4-lane expressway near Independence (<u>Manzanar</u>) from 0.6 KM South of LADWP Aqueduct Bridge # 48-14 to 2.9 KM South of Mazourka Canyon Rd (KPX104.9/114.6)	George Creek, Bairs Creek, Shepard Creek, LA Aqueduct	DSA 401	6/03	11/06	4/07	5/09
В	09- 26350_	MNO	0	L5705	Construct new maintenance station at Crestview; Mono 395 PM 32.4		DSA	7/04	9/09	6/10	6/12
В	09- 30700	MNO	108	0.0/15.0	Sonora Drainage IV-Drainage Improvements near Sonora Junction from Toulumne County line to Junction Route 395	Sardine Creek, Leavitt Creek, West Walker River	401	6/03	11/04	6/05	11/05
A	09- 23770_	MNO	395	117.9/119.4	Realign & curve correction near Topaz (<u>High Point</u>) from 1.4 KM North Rte 89 to 0.8 KM South of Nevada Stateline (KPX189.7/192.2)	Topaz Lake	DSA 303(d)	10/06	4/09	7/09	10/11
В	09- 28010	MNO	395	109.7/114.7	Topaz-Larsen Turn Lane-Construct left turn pocket near Coleville from .5 KM south of Larsen Lane to 1.0 KM north of Topaz Lane		DSA	12/03	12/04	6/05	10/05
В	09- 26900	MNO	395	R0.0/R10.3	AC overlay, shoulder widening	Rock Creek	DSA	11/04	2/07	7/07	11/08

SECTION FIVE

Table 5-1 Legend

*		ria	

DSA = Disturbed Soil Area is greater than 5 acres. 303 (d) listed water body within project limits and 303d =affected by project 401 Certification/Waiver required 401 Supplemental Environmental Project SEP = Storm Water Retrofit Project (SWMP 4.4.2) Retro = Lahontan RWQCB specific requirements for the Lake LT Tahoe Hydrologic Unit Project limits within High Risk Area HR RWQCB designated project as a potential threat to RB water quality

- ** SWMP Category is defined in SWMP Section 4.4.1, Table 4-3,
- (A) Beginning of Project Development Process prior to approval of the PSR
- (B) PSR approved but Environmental Documents are not final
- (C) Environmental Documents are final
- (D) Environmental documents final, design complete and project in the construction phase of project delivery

TABLE 5-2: ANTICIPATED MAINTENANCE ACTIVITIES AND OTHER MANAGEMENT PRACTICES

Significant Roadway Maintenance Activities (1)									
County	Route	PM	Description	Water Bodies Affected	Criteria (2)	Start Date	Completion Date		
Inyo	395	65.0-69.0	Crack Seal	L.A. Aqueduct	HR	04/05	08/05		
Mono	108	12.93	Concrete overlay of bridge	Walker River	303d	08/05	09/05		
Mono	182	0-12.6	Crack seal	Bridgeport Reservoir & Swauger Creek	303d	08/05	10/05		
Mono	270	0-12.6	Machined placed blankets & crack seal	Clearwater Creek	303d	05/05	09/05		
Mono	395	10.0-32.0	Crack seal	Crowley Lake & Mammoth Creek	303d	06/05	07/05		
Mono	395	45.0-51.3	Chip seal	Rush Creek	HR	07/05	08/05		
Mono	395	58.0-86.0	Crack seal	Mono Lake	HR	06/05	07/05		
Mono	395	86.0-120	Crack seal	Topaz Lake	303d	03/05	06/05		

Maintenance Facility and Activity Inspections

Activity Inspections will be conducted annually as described in the SWMP.

All 12 Maintenance Facilities are scheduled for annual inspections by the District Storm Water Coordinator and/or District Maintenance Storm Water Coordinator.

Maintenance Facility BMP Improvements

Review Maintenance Stations and activities with Supervisors on an on-going basis; share examples of BMP's that work well, are easy to install, and are cost effective.

Maintenance BMP Actions/Modifications

Review Maintenance Stations and Operations with Supervisors and implement new BMP technologies, as they become available.

Review new and approved BMP's as they become available and implement as appropriate.

Review existing BMP's and modify as needed.

TABLE 5-2: ANTICIPATED MAINTENANCE ACTIVITIES AND OTHER MANAGEMENT PRACTICES

Vegetation Management and Vegetated Slope Management

Seed storage at Bishop (erosion control program).

The District's Vegetation Control Plan (VCP) for FY 2005/2006 is under development. The goal of the District's 05-06 VCP is to minimize the discharge of chemicals to receiving waters by reducing chemical use for vegetation control. The district VCPs are under development at this time. They include the following:

- Type of chemical to be applied
- Applications locations, widths, total acres applied, frequency, amount totals
- · Reason for application

The District's Slope Inspection Team uses the Slope Inspection Form (further discussed in Annual Report Section 5.2.3) that is used to inspect all roadside vegetated slopes over the course of 5 years.

The following table summarizes the Slope Inspection schedule for the 2005-2006 Fiscal Year.

Centerline (lane) Miles	Route/PM	County	Inspection Schedule	Remediation Action Planned
14.4	395 PM 115.1-129.5	Inyo	2005	To be detailed upon completion
120.5	395 PM 0-120.5	Mono	Spring/Summer	To be detailed upon completion
7.6	89 PM 0-7.6	Mono	2005	To be detailed upon completion
15.1	108 PM 0-15.1	Mono	Spring/Summer	To be detailed upon completion
12.7	182 PM 0-12.7	Mono	2005	To be detailed upon completion
13.3	270 PM 0-13.3	Mono	Spring/Summer	To be detailed upon completion
21.3	167 PM 0-21.3	Mono	2005 Spring/Summer	To be detailed upon completion

(1) Significant road maintenance activities includes projects involving grade changes, additional hydraulic capacity, direct discharges to surface waters, increases in impervious surface area, or other activities identified or agreed to between RWQCB and The Department staff.

(2) Criteria

DSA = Disturbed Soil Area is greater than 5 acres

303d = 303 (d) listed water body with project limits and affected by project

401 = 401 Certification/Waiver required
SEP = Supplemental Environmental Project
Retro = Storm Water Retrofit Project (SWMP 4.4.2)

LT = Lahontan RWQCB specific requirements for the Lake Tahoe Hydrologic Unit

HR = Project limits within High Risk Area

RB = RWQCB designated projects as a potential threat to water quality

TABLE 5-3: GENERAL MANAGEMENT PRACTICES

Monitoring Activities

Monitoring activities will be conducted in accordance with the Statewide Monitoring Program described in the Storm Water Monitoring Plan FY 2004/05.

Monitoring the Storm Water outflow at Lee Vining Maintenance Station.

Construction Compliance Monitoring Program

Construction activities are inspected through the Construction Compliance Monitoring Program. Monitoring results are provided in the annual report.

Initiated sampling and analytical plans for construction.

Training and Public Outreach

BMP training is given every 10 days to the maintenance crew by the MTCE supervisor at the local facility, during Maintenance's "Safety Tailgate" Meetings.

Formal BMP training is provided to maintenance crews once a year by the District Storm Water staff in the field on a regional basis.

Salt and cinder calibration training will be provided to the maintenance crew on an annual basis to train employees on how to operate the sander/spreader controls.

P.P.D.G. training will be given to Design personnel on an as needed basis.

Construction storm water BMP training will be given on an as needed basis.

The District 9 will promote the Storm Water program by advertising the "Don't Trash California" media campaign on the local radio and TV stations, as funding permits. Additionally, the District will attempt at least one person-to-person public outreach campaign at local events within the District, as funding permits. Details of the District's accomplishments will be provided in the Department's Annual Report.

Municipal Coordination

Coordination with Inyo and Mono Counties, as well as the local Native American tribes is continuous throughout all phases of projects.

Caltrans' storm water concerns are delineated throughout the Inter-Governmental Review/CEQA process.